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NPIC/TSSG/RED-1787-69  
8 September 1969

MEMORANDUM FOR: Chief, Technical Services & Support Group

ATTENTION : [ ] FPS/TSSG

SUBJECT : RED Monthly Report on Significant Events (August 1969)

A. Significant Items of Interest for August 1969.

1. Search & Scan PI Station - The evaluation team for the Search and Scan PI Station met on 3 September and made recommendations to the Executive Director. If the recommendations are approved, [ ] will begin the design of the instrument immediately.
2. A.S.S. Bench Test - [ ] completed Milestone 1 of the A.S.S. Bench Test on schedule (2 August 1969) and was authorized to proceed to the second Milestone.
3. TICOF - The first phase of the current TICOF data collection program was completed on 21 August, and PSG/AID furnished RED with the initial data analysis on 27 August. Preliminary inspection of the results indicated that major programming hurdles have been eliminated.
4. NATO Image Evaluation Symposium - [ ] attended a NATO-sponsored Human Factors Symposium on Image Evaluation in Munich, 18-22 August. The program was organized around seven general topics: Real-Time Interpretation; Systems Studies; Image Parameters; Search and Detection; the Human Visual System; Problems Arising in the Use of Optical Instruments; Theoretical Studies, Simulation and Automatic Pattern Recognition. Formal and informal discussions were intense on all topics, but primary interest was shown to lie in areas of Real-Time Interpretation, Search and Detection (especially eye-tracking), and Automatic Pattern Recognition. [ ]

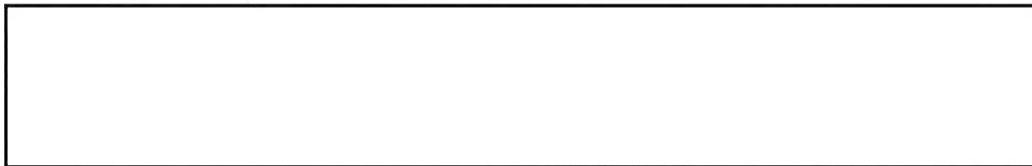
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GROUP 1  
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downgrading and  
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5. High Precision Stereo Comparator - [ ] Project Manager monitored the optical subcontract at [ ] from 4-14 August and reports that the optical system will be ready for acceptance tests by 15 December 1969.

[ ] the correlation system subcontractor, has asked that acceptance tests for the correlator be delayed from 25 August until 6 October 1969. This will not affect the over-all schedule but any further delay could influence the entire program.

6. Dry Silver Materials and Equipment - The [ ] recommendations for the implementation of dry silver into NPIC operations have been received. Copies have been forwarded to the various Groups and Division concerned with requests for comments.

7. Target Indexing Device (TID) - On 2 September RED presented the results of the TID technique evaluation team to the Executive Director and the Group Chiefs. Three decisions resulted from the meeting:

a.. Proceed with the fabrication of an engineering prototype target indexing device (target look-through) using the diffraction pattern sampling (optical) technique.

b. [ ] is to prepare a cost estimate and details of the additional software requirements to permit the TID to be used for the determination of percentage of cloud cover (general analysis problem) as well as for the target look-through problem.

c. [ ] is to prepare a cost and work statement for a demonstratable electronic breadboard as a parallel back-up effort for the optical prototype.

8. IDT Computer Display Program (ORD) - It was learned that [ ] may deliver this equipment as much as two months prior to an earlier estimated date of 30 May 1970.

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25X1 9. Removal of Defocus Effects Using RADC Equipment - At the request of [ ] was visited to evaluate a piece of equipment designed for the removal of degradations due to defocus. The results were not encouraging. The equipment had not been used at [ ] and much of the time was spent in familiarization. Some residual problems remained which could not be eliminated during the time available; thus the machine never operated correctly. The evaluation of the "restored" imagery is not yet completed but will be during September. [ ] personnel proved very helpful and offered to allow the Exploratory Lab to borrow the equipment.

25X1 10. Non-Conventional Materials - A laboratory program has been defined for determining tonal response, gamma control and flexibility, resolution response, and granularity for Technifax T5-101R diazo positive film. Experimentation can proceed upon receipt of requisitioned materials.

B. See attachment 1 for report of RED/RSB August events.

[ ]  
Deputy Chief, Research & Engineering Division

Attachment:

1. [ ] 29 August 1969

Distribution:

1 - TSSG w/att. 1  
2 - RED/TSSG w/o att. 1

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